

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for determining a composition of a dye product for dyeing keratin fibers, comprising the steps of:

- entering at least one item of data representative of a target coloration;
- determining, from a database, a dye product based on said target coloration; and
- displaying the composition of said dye product, identifying a plurality of ~~at least one~~ dye components ~~component~~ to produce said dye product, and further identifying a relative proportions ~~proportion~~ for said plurality of ~~at least one~~ dye components,

wherein said determining step includes determining a dye product for obtaining the target coloration, and wherein said determining step includes determining a dye product for obtaining a theoretical coloration that differs from the target coloration by not more than a predetermined theoretical value.

Claims 2-4 (Canceled).

Claim 5 (Original): The process of claim 1, wherein said determining step comprises determining a predetermined number of dye products for obtaining theoretical colorations that are close to the target coloration, and wherein said displaying step includes displaying at least one of said dye products.

Claim 6 (Original): The process of claim 4, wherein said displaying step comprises displaying a value representative of a difference between the theoretical coloration obtained with the dye product and the target coloration.

Claim 7 (Original): The process of claim 4, wherein said displaying step comprises displaying a colored graph component whose coloration is the theoretical coloration obtained with the dye product.

Claim 8 (Original): The process of claim 4, wherein said determining step comprises determining a plurality of dye products based on said target coloration.

Claim 9 (Original): The process of claim 8, wherein said displaying step comprises displaying the dye products arranged in order of proximity between the theoretical coloration and the target coloration.

Claim 10 (Original): The process of claim 1, wherein the determining step comprises selecting a dye product identified in the database.

Claim 11 (Original): The process of claim 1, wherein the determining step comprises determining the composition of said dye product by numerical calculation.

Claim 12 (Original): The process of claim 1, wherein said at least one dye component comprises an oxidation base.

Claim 13 (Original): The process of claim 12, wherein said at least one dye component further comprises an oxidation coupler.

Claim 14 (Original): The process of claim 1, wherein said at least one dye component comprises a direct dye.

Claim 15 (Original): The process of claim 1, wherein said keratin fibers are human hairs.

Claim 16 (Original): The process of claim 1, further comprising a step of entering at least one characteristic of said keratin fibers.

Claim 17 (Original): The process of claim 16, wherein said step of entering said at least one characteristic comprises entering at least one item of data representative of a real color of the keratin fibers.

Claim 18 (Original): The process of claim 17, further comprising a step of identifying a subset of dye components chosen from all dye components in the database, and wherein said determining step comprises determining dye products formed from one or more dye components of the said subset.

Claim 19 (Original): A process for preparing a dye product, comprising the steps of:
determining a proportion for at least one dye component of the dye product using the process of claim 1; and

preparing said dye product by incorporating said at least one dye component determined by said determining step, in the proportion determined by said determining step.

Claims 20-24 (Canceled).

Claim 25 (Currently Amended): A system for determining a composition of a dye product for dyeing keratin fibers, comprising:

means for entering at least one set of data representative of a target coloration;

calculation means for determining, from a database, the dye product based on said target coloration; and

means for displaying the composition for said dye product, identifying at least one dye component to produce said dye product, and further identifying a proportion of said at least one dye component,

wherein said calculation means includes means for determining at least one dye product for obtaining the target coloration, and wherein said calculation means includes means for determining at least one dye product for obtaining a theoretical coloration that differs from the target coloration by not more than a predetermined theoretical value.

Claims 26-27 (Canceled).

Claim 28 (Original): The system of claim 25, wherein said calculation means comprises means for determining a predetermined number of dye products for obtaining theoretical colorations that are close to the target coloration, and wherein said displaying means comprises a means for displaying at least one of said dye products.

Claim 29 (Original): The system of claim 25, wherein the database is remotely located relative to the display means, data between said database and said display means being transmitted over a network.

Claim 30 (Original): The system of claim 29, wherein said calculation means is remotely located relative to the display means.

Claim 31 (Original): The system of claim 29, wherein said database is remotely located relative to the entering means.

Claim 32 (Original): The system of claim 29, wherein said network is the Internet.

Claim 33 (Original): The system of claim 25, wherein the means for entering comprises a colorimeter.

Claim 34 (Original): The system of claim 25, wherein the means for entering comprises a electronic spectrophotometer.

Claim 35 (Currently Amended): A computer program product, comprising:
a computer storage medium and a computer program code mechanism embedded in the computer storage medium for causing a computer to determine a composition of a dye product for dyeing keratin fibers, the computer program code mechanism comprising:

a first computer code device configured to receive data representative of a target coloration;

a second computer code device configured to perform a search of a database based on said target coloration;

a third computer code device configured to identify ~~at least one~~ a plurality of dye components ~~component~~ of said dye product and relative a proportions ~~proportion~~ for said at least one dye component; and

a fourth computer code device configured to transmit said plurality of at least one dye components and said relative proportions,

wherein said third computer code device is configured to select from said database said dye product which provides said target coloration, and wherein said third computer code device is configured to select from said database said dye product which provides a product coloration that differs from the target coloration by not more than a predetermined value.

Claims 36-38 (Canceled).

Claim 39 (Currently Amended): The computer program product of claim [[38]] 35, wherein:

said fourth computer code device is configured to transmit a value representative of a difference between said product coloration and said target coloration.

Claim 40 (Original): The computer program product of claim 35, wherein said computer storage medium comprises said database.

Claim 41 (Original): The computer program product of claim 40, wherein said database stores identification data for a plurality of dye components.

Claim 42 (Original): The computer program product of claim 41, wherein said database stores proportions for each dye component of said plurality of dye components and for a plurality of dye products.

Claim 43 (Original): The computer program product of claim 42, wherein said database stores color data for each of said dye products.

Claim 44 (Currently Amended): A process for determining a composition of a dye product for dyeing keratin fibers, comprising the steps of:

receiving data representing a target coloration; searching a database based on said target coloration;

selecting from said database at least one dye product based on said target coloration;

identifying dye components and proportions of said dye components for said at least one dye product; and

transmitting data representing said dye components and said proportions,

wherein said at least one dye product provides the target coloration, and wherein said at least one dye product provides a product coloration that differs from the target coloration by not more than a predetermined value.

Claims 45-46 (Canceled).

Claim 47 (Currently Amended): The process of claim ~~[[46]]~~ 44, wherein said predetermined value corresponds to a minimum value for which the difference between the product coloration and the target coloration is perceptible by a human eye.

Claim 48 (Original): The process of claim 44, wherein said transmitting is performed over a network toward a remote user.

Claim 49 (Original): The process of claim 44, wherein said transmitting is performed toward a display device.

Claim 50 (Original): The process of claim 49, further comprising displaying with said display device said data representing said dye components and said proportions.